

Application No. 09/934,455

Docket No.: MBI-0025

Listing of Claims

Claim 1. (Currently amended) A transgenic plant comprising a recombinant polynucleotide having a nucleotide sequence selected from the group consisting of:

- (a) a nucleotide sequence encoding a polypeptide comprising ~~an amino acid sequence selected from those of SEQ ID NOs. 2N where N=1-258~~ SEQ ID NO: 6, or a complementary nucleotide sequence thereof;
- (b) a nucleotide sequence encoding a polypeptide comprising a conservatively substituted variant of a polypeptide of (a);
- (c) ~~one of SEQ ID NOs. 2N-1 where N=1-258~~ SEQ ID NO: 5, or a complementary nucleotide sequence thereof;
- (d) a nucleotide sequence comprising one or more silent substitutions in a nucleotide sequence of (c);
- (e) a nucleotide sequence that hybridizes under stringent conditions of 0.2 x SSC, 0.1% SDS at 65°C to a nucleotide sequence of one or more of: (a), (b), (c), or (d);
- (f) a nucleotide sequence comprising at least 15 consecutive nucleotides outside of a conserved domain of any of (a)-(e);
- (g) a nucleotide sequence comprising a subsequence or fragment of any of (a)-(f), which subsequence or fragment encodes a polypeptide that modifies one or more of a plant's traits;
- (h) a nucleotide sequence having at least 31% sequence identity to a nucleotide sequence of any of (a)-(g);
- (i) a nucleotide sequence having at least 60% sequence identity to a nucleotide sequence of any of (a)-(g);
- (j) a nucleotide sequence having at least 95% sequence identity to a nucleotide sequence of any of (a)-(g);
- (k) a nucleotide sequence encoding a polypeptide having at least 31% sequence identity outside of a conserved domain of a polypeptide having an amino acid sequence of ~~one of SEQ ID Nos. 2N where N=1-258~~ SEQ ID NO: 6;
- (l) a nucleotide sequence encoding a polypeptide having at least 60% sequence identity outside of a conserved domain of a polypeptide having an amino acid sequence of ~~one of SEQ ID Nos. 2N where N=1-258~~ SEQ ID NO: 6; or
- (m) a nucleotide sequence encoding a polypeptide having at least 75% sequence identity outside of a conserved domain of a polypeptide having an amino acid sequence of ~~one of SEQ ID Nos. 2N where N=1-258~~ SEQ ID NO: 6;